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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

(currently amended) A method of producing an immunoglobulin constant region,

comprising:

transforming E. Coli with a recombinant expression vector including a nucleotide

sequence encoding an E.coli signal sequence and a nucleotide sequence encoding an

immunoglobulin constant region, without a variable region;

culturing a resulting transformant in a medium to overexpress the immunoglobulin

constant region in the cytoplasm of the transformant, wherein the signal sequence of the

overexpressed immnunoglobulin constant region is processed; and

isolating the immunoglobulin constant region expressed by the transformant,

wherein the signal sequence is a heat-stable enterotoxin II signal sequence, and wherein

the immunoglobulin constant region is expressed in the cytoplasm in a water soluble form and is

not secreted into the medium or the periplasmic space, and wherein the transformant is selected

from the group consisting of E. Coli BL21/pSTIIGICH1 3 (HM10935; Deposit No. KCCM-

10600), BL21/pSTIIdCG1Fc (HM10927; Deposit No. KCCM-10588), BL21/pSTIIdCG1SFc

(HM10928; Deposit No. KCCM-10589), BL21/pSTIIdCG1SFFc (HM10929; Deposit No.

KCCM-10594), BL21/pSTIIG1Mo (HM10930; Deposit No. KCCM10595), BL21/pSTIIdCG4Fc

(HM10932; Deposit No. KCCM-10597), BL21/pSTIIG4CH1 3 (HM10931; Deposit No. KCCM-

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10596), BL21/pSTIIG4Mo (HM10933; Deposit No. KCCM-10598), and BL21/pSTIIG4H K

(HM10934; Deposit No. KCCM-10599).

2. (previously presented) The method according to claim 1, wherein the

immunoglobulin constant region is selected from the group consisting of constant regions from

IgG, IgA, IgM, IgE, and IgD.

(previously presented) The method according to claim 2, wherein the IgG is

selected from the group consisting of constant regions from IgG1, IgG2, IgG3, and IgG4.

4. (original) The method according to claim 3, wherein the immunoglobulin

constant region is an IgG4 constant region.

5. (original) The method according to claim 4, wherein the immunoglobulin

constant region is a human aglycosylated IgG4 constant region.

6. (original) The method according to claim 1, wherein the immunoglobulin

constant region lacks all or a portion of a hinge region.

(canceled).

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8. (original) The method according to claim 1, wherein the recombinant expression

vector comprises a nucleotide sequence encoding a heavy chain constant 1 region or a nucleotide

sequence encoding a light chain constant region.

9. (original) The method according to claim 1, wherein the immunoglobulin

constant region has an amino acid sequence represented by SEQ ID NO. 21, 22, 23, 24, 25, 27,

29, 30, 34 or 35.

10. (canceled).

11. (original) The method according to claim 1, wherein the heat-stable enterotoxin

II signal peptide has an amino acid sequence represented by SEQ ID NO. 36, 37, 38, 39, 40, 41,

42, 43, 44, 45 or 46.

12. (original) The method according to claim 1, wherein the recombinant expression

vector comprises the signal sequence, and a nucleotide sequence encoding an immunoglobulin

constant region of SEQ ID NOs: 21-25, 27, 29, 30, 34, or 35.

13-14. (canceled).

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 (withdrawn) An immunoglobulin constant region prepared by the method of claim 1.

16. (previously presented) The method according to claim 1, wherein the

immunoglobulin constant region lacks all or a portion of a hinge region.